

ABSTRACT

A holographic storage system includes a beam supplying unit for supplying an incident beam including data read from a plurality of tracks on a holographic medium; a transferring unit for receiving the incident beam and producing a focused beam; a tracking servo unit for receiving a first portion of the focused beam through a plurality of pinholes and reflecting a second portion of the focused beam back to the transferring unit through a reflecting section simultaneously, wherein the tracking servo unit moves the transferring unit or the pinholes to adjust the amount of the first portion of the focused beam to thereby retrieve data from a target track, and wherein the second portion of the focused beam reflected back to the transferring unit is converted into a return beam by the transferring unit; and a focusing servo unit for compensating for vertical movements of the holographic medium.

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